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FLOATING MAGNETIC
HEAD

INVENTOR: ONISHI, KAZUMASA
NAKAMURA, ISAO
APPLICANT: ALPS ELECTRIC CO LTD
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ABSTRACT:

PURPOSE: To avoid danger of a head crash by inserting a piezoelectric element between a flexure and a slider.

CONSTITUTION: The flexure 14 is attached at a tip of a load beam 10 and the piezoelectric element 24 is provided on the flexure 14 and besides the slider 16 having a magnetic core 26 is attached to the piezoelectric element 24 and a magnetic head is composed. At a stopped time of a rotation of a magnetic disk 22, a thickness of the piezoelectric element 24 is shrunk by a voltage impressed on the piezoelectric element 24 and the slider 16 is set at such a position that the slider is not allowed to contact with the magnetic disk 22. Also at an operating time, the magnetic disk 22 rotates at a regular speed and a voltage applied to the piezoelectric element 24 is suppressed by making it coincide with the generation of a high speed of air flow having a sufficient floating force. Thus a contact sliding between the magnetic head and the magnetic disk 22 is eliminated and the damage is avoided.

